

Penentuan matriks almost strictly sign regular (ASSR) dengan dekomposisi QR = On the identification of almost strictly sign regular matrices through QR decomposition

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Abstrak

ABSTRAK

Bentuk matriks almost strictly sign regular ASSR adalah bentuk menengah antara bentuk sign regular dan strictly sign regular. Akan dilakukan dekomposisi QR terhadap bentuk ASSR dan dilakukan karakterisasi terhadap hasil dari dekomposisi tersebut. Hasil karakterisasi ini akan digunakan untuk mendapat metode penentuan matriks ASSR. Algoritma beserta hasil implementasi dari metode tersebut turut disertakan.

ABSTRACT

The QR decomposition of almost strictly sign regular ASSR matrices has been characterized by Alonso 2015 . It yields a theorem that helps to identify ASSR matrices through QR decomposition. In this paper, the algorithm for the identification is constructed based on Alonso rsquo s characterization. This paper also provides step by step explanation of the identification process, in correspondence with Alonso's characterization. Some numerical examples are presented.